ABSTRACT

| A wound closure apparatus having a housing that contains a vacuum pump and a |
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| chamber for holding a disposable wound fluid collection canister. The canister resides |
| within the chamber and connects at an outlet with the vacuum pump at an inlet with a |
| porous wound pad. The pad is placed over or within a wound and adhesively secured |
| thereto. When the vacuum pump activates, it evacuates air from the canister resulting in |
| wound fluids flowing from the wound into the canister. Due to the negative effect that a |
| vacuum can impose on tissue when granulation tissue is pulled into the pad, the pad |
| contains multiple pore sizes to prevent granulation tissue from migrating into the pad. |
| The pad has an outer surface adjacent the wound with pore sizes of a diameter of |
| approximately 100 microns or less to prevent tissue from growing into the pad and is |
| treated for biocompatibility. |
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